

From owner-qrp-l@netcom.com Wed Sep 14 01:00:33 1994
Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.129]
with SMTP
id AA113360 (for qrmodena, from owner-qrp-l@netcom.com/owner-qrp-l@netcom.com); Wed, 14 Sep 94 01:00:33 -0400
Received: by netcom16.netcom.com (8.6.8.1/Netcom)
id KAA18674; Tue, 13 Sep 1994 10:48:29 -0700
Received: from kahuna.math.hawaii.edu by netcom16.netcom.com (8.6.8.1/Netcom)
id KAA18628; Tue, 13 Sep 1994 10:48:20 -0700
From: jeffrey@math.hawaii.edu
Received: from cruncher.math.hawaii.edu by kahuna.math.hawaii.edu (4.1/kahuna-MX-1.4b)
id AA17351; Tue, 13 Sep 94 07:46:40 HST
Received: by cruncher.math.hawaii.edu (4.1/cruncher-CLIENT-1.3)
id AA02244; Tue, 13 Sep 94 07:46:36 HST
Date: Tue, 13 Sep 94 07:46:36 HST
Message-Id: <9409131746.AA02244@cruncher.math.hawaii.edu>
To: qrp-l@netcom.com
Subject: Vertical Dipoles
Sender: owner-qrp-l@netcom.com
Precedence: list
Status: RO

Concerning vertical dipoles, keep in mind that both WWV and WWVH exclusively use these antennas. Here in Hawaii WWVH uses them phased so as to get a more westerly pattern; WWV took care of the Eastern Pacific and WWVH is supposed to cover the Western and Southern Pacific.

Jeff NH6IL

From owner-qrp-l@netcom.com Wed Sep 14 02:03:02 1994
Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.121]
with SMTP
id AA113491 (for qrmodena, from owner-qrp-l@netcom.com/owner-qrp-l@netcom.com); Wed, 14 Sep 94 02:03:02 -0400
Received: by netcom11.netcom.com (8.6.8.1/Netcom)
id RAA22665; Tue, 13 Sep 1994 17:08:45 -0700
Received: from post.demon.co.uk by netcom11.netcom.com (8.6.8.1/Netcom)
id RAA22657; Tue, 13 Sep 1994 17:08:41 -0700
Received: from gqrp.demon.co.uk by post.demon.co.uk id aa09458;
14 Sep 94 0:54 GMT-60:00
Date: Tue, 13 Sep 1994 13:02:15 GMT
From: George Dobbs <g3rjv@gqrp.demon.co.uk>
Reply-To: g3rjv@gqrp.demon.co.uk
Message-Id: <4083@gqrp.demon.co.uk>
To: KELL@lark.jsc.nasa.gov, qrp-l@netcom.com

Subject: Re: Club Subscriptions
X-Mailer: PCElm 1.10 beta 3
Lines: 40
Sender: owner-qrp-1@netcom.com
Precedence: list
Status: R0

In message <940912081346.675@LARK.JSC.NASA.GOV> KELL@lark.jsc.nasa.gov writes:
> Its that time of year again (at least for me), and I need renewal addresses
> for SPRAT, QRPp, and QRP Quarterly. Somewhere I have Jim Cates's address
> for
> QRPp, but I havn't a clue for the others. Perhaps some kind person could
> post these or mail them to me.
>
> Thanks
>
> Ted Kell@lark.jsc.nasa.gov
> KC5CUW

JOINING AND RENEWAL OF MEMBERSHIP OF THE G QRP CLUB

It is about time I sent information about the G QRP Club again:

G QRP CLUB RENEWALS FROM THE USA

US Members can renew via:

Mike Kilgore KG5F
2046 Ash Hill Road
Carrollton
TX 75007

The current renewal cost is 12 dollars (Checks to G QRP CLUB)
Renewals for 1995 are due on Jan. 1st, but earlier payments OK.

DETAILS OF THE G QRP CLUB AND A SAMPLE OF SPRAT

can be had by sending me via email or the postal service your full name and
address. Please set out as below:

George Dobbs G3RJV
St. Aidan's Vicarage
498 Manchester Road
Rochdale
OL11 3HE. U.K.

If you lay it out that way, I just print it and use it as an address label.

Thank you for your Internet time.....

--

George Dobbs G3RJV
G-QRP Club

"It is vain to do with more,
what can be done with less."

----- William of Occam (1290-1350)

From owner-qrp-l@netcom.com Wed Sep 14 03:21:34 1994
Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.129]
with SMTP
id AA113555 (for qrmodena, from owner-qrp-l@netcom.com/owner-qrp-l@netcom.com); Wed, 14 Sep 94 03:21:34 -0400
Received: by netcom16.netcom.com (8.6.8.1/Netcom)
id WAA05904; Tue, 13 Sep 1994 22:03:25 -0700
Received: from kahuna.math.hawaii.edu by netcom16.netcom.com (8.6.8.1/Netcom)
id WAA05837; Tue, 13 Sep 1994 22:03:14 -0700
Received: by kahuna.math.hawaii.edu (4.1/kahuna-MX-1.4b)
id AA19670; Tue, 13 Sep 94 19:03:27 HST
Date: Tue, 13 Sep 94 19:03:27 HST
From: jeffrey@math.hawaii.edu (Jeffrey Herman)
Message-Id: <9409140503.AA19670@kahuna.math.hawaii.edu>
To: adams@chuck.dallas.sgi.com
Subject: Re: K5FO Inventory
Cc: qrp-l@netcom.com
Sender: owner-qrp-l@netcom.com
Precedence: list
Status: RO

Yes yes yes! Thank you Chuck! If we don't do something our
sacred cw subbands will be eaten up as these *unattended*
digital things start moving lower and lower.

Our one major advantage is that CW is allowed anywhere
on any band; we might have to start exercising this
privilege.

Jeff NH6IL

From owner-qrp-l@netcom.com Wed Sep 14 05:00:14 1994
Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.119]
with SMTP
id AA113673 (for qrmodena, from owner-qrp-l@netcom.com/owner-qrp-l@netcom.com); Wed, 14 Sep 94 05:00:14 -0400
Received: by netcom9.netcom.com (8.6.8.1/Netcom)
id NAA09767; Tue, 13 Sep 1994 13:36:59 -0700
Received: from halcyon.com by netcom9.netcom.com (8.6.8.1/Netcom)
id NAA09754; Tue, 13 Sep 1994 13:36:53 -0700
Received: from [149.82.22.63] by halcyon.com with SMTP id AA26448
(5.65c/IDA-1.4.4 for <qrp-l@netcom.com>); Tue, 13 Sep 1994 13:34:45 -0700
Message-Id: <199409132034.AA26448@halcyon.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 13 Sep 1994 13:35:33 -0700
To: Scott Cranston <cranston@zk3.dec.com>
From: xenolith@halcyon.com (Kevin Purcell)

Subject: Re: Using a dipole as a vertical
Cc: qrp-1@netcom.com
Sender: owner-qrp-1@netcom.com
Precedence: list
Status: R0

Amazing how some discussions never die!

The return of the RFD!

```
>|- feedline --|----- 1/2 wavelength -----|
>
>          |----- 1/4 wavelength ----|
>
> +-----=====
><-----0
> +-----=====
>
>
> ^^^^^^^^^^^^^ ^^^^^^^^^^^^^ ^^^^^^^^^^^^^
>coax with      braid folded back over the      coax center conductor only
>outer          section of coax that still
>insulation and has the outer insulation.
>connector on
>end
      ^^ stick an RF choke here:
          by winding the coax into a coil
          or by loading the coax with some ferrite beads
          or by winding the coax around a toroid core
```

This avoids the wasteful and tedious "pull the shield back" task and you
can use cheap whire for

^^ this half of the dipole

Kevin Purcell, N7WIM / G8UDP xenolith@halcyon.com 206/649-6489
Seattle dBug Mac Developers SIG organiser

From owner-qrp-1@netcom.com Wed Sep 14 05:24:33 1994
Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.99] with
SMTP

id AA113772 (for qrmadena, from owner-qrp-1@netcom.com/owner-qrp-
1@netcom.com); Wed, 14 Sep 94 05:24:33 -0400

Received: by mail.netcom.com (8.6.9/Netcom)

id AAA19993; Wed, 14 Sep 1994 00:51:59 -0700

Received: from neptunus.rivm.nl by mail.netcom.com (8.6.9/Netcom)

id AAA19987; Wed, 14 Sep 1994 00:51:55 -0700

Message-Id: <199409140751.AAA19987@mail.netcom.com>
Received: from betsy.rivm.nl by neptunus.rivm.nl with SMTP (PP);
Wed, 14 Sep 1994 09:52:17 +0200
Received: by betsy.rivm.nl (1.37.109.4/16.2-MQT/NCE/a3) id AA10457;
Wed, 14 Sep 94 08:45:05 GMT
From: Charlos Potma <Charlos.Potma@rivm.nl>
Subject: Re: OHR Classic PA question
To: qrp-l@netcom.com
Date: Wed, 14 Sep 94 8:45:05 GMT
Mailer: Elm [revision: 70.85]
Sender: owner-qrp-l@netcom.com
Precedence: list
Status: R0

Stephen sct@po.cwru.edu wrote:

> My OHR Spirit came with an errata sheet that said the kit might have
> either a 2SC2075 or a 2SC2078. They're equivalent, or close enough
>.....

face reddens...

I found the addendum to instructions...

>

> Is the Classic a band-imaging receiver or does it switch bands by
> switching premix frequencies in the LO?

>

As far as I can deduct from the schematics, the Classic is
a 40/20m single conversion superhet with a 9 Mhz IF. VFO is 5-5.1 Mhz,
and is mixed with 11 Mhz/18 Mhz to get a range of 16-16.1/23-23.1 .
Received signal 7-7.1/14-14.1 is mixed with VFO to get 9 Mhz IF.

The documentation that came with the kit has no explanation
(other than the schematics) of what

I'm actually building. There is not even a block diagram. I think this
somewhat devaluates the value of the kit as an educational project.

Another problem I have is with the way the Classic is built.

This is the most complicated kit I built so far (435 components
not counting mechanical part,sockets,boards etc.) and yet if I follow
the instructions I have to build and wire the complete unit and >then<
align it. So if I make one single mistake (wich is probable) the radio
will not work. Then I will have to locate the fault and the documentation
will hardly help me with that.

Rather I would have seen documentation that would have guided me
through building the Classic in 'modules' : first build the 11 MHz xtal
oscillator and test it, build the 18 Mhz xtal oscillator and test it,etc.
That way I will be able to at least compartmentalize faults to small
modules.

What do you think ?

Nevertheless, I think this is a fine kit, better than most stuff found in Europe. I really like the cabinet !

73 from Holland, where veterans of Allied airborne division gather in Arnhem to commemorate the 50-th anniversary of operation Market Garden, which proved a 'Bridge too far'.

charlos@rivm.nl

From owner-qrp-l@netcom.com Wed Sep 14 06:06:48 1994

Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.99] with SMTP

id AA113849 (for qrmodena, from owner-qrp-l@netcom.com/owner-qrp-l@netcom.com); Wed, 14 Sep 94 06:06:48 -0400

Received: by mail.netcom.com (8.6.9/Netcom)

id BAA23941; Wed, 14 Sep 1994 01:35:01 -0700

Received: from kahuna.math.hawaii.edu by mail.netcom.com (8.6.9/Netcom)

id BAA23874; Wed, 14 Sep 1994 01:34:46 -0700

Received: by kahuna.math.hawaii.edu (4.1/kahuna-MX-1.4b)

id AA20144; Tue, 13 Sep 94 22:35:03 HST

Date: Tue, 13 Sep 94 22:35:03 HST

From: jeffrey@math.hawaii.edu (Jeffrey Herman)

Message-Id: <9409140835.AA20144@kahuna.math.hawaii.edu>

To: qrp-l@netcom.com

Subject: digital invasion

Sender: owner-qrp-l@netcom.com

Precedence: list

Status: RO

If you folks can ID any of the encroaching *unattended* digital things and then provide the net with callsigns maybe we can send a 100 or so QSL cards to the owners with a gentle note that interference is occurring.

Jeff NH6IL

From owner-qrp-l@netcom.com Wed Sep 14 09:59:54 1994

Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.127] with SMTP

id AA100280 (for qrmodena, from owner-qrp-l@netcom.com/owner-qrp-l@netcom.com); Wed, 14 Sep 94 09:59:54 -0400

Received: by mail3.netcom.com (8.6.9/Netcom)

id FAA18988; Wed, 14 Sep 1994 05:01:50 -0700

Received: from gw1.att.com by mail3.netcom.com (8.6.9/Netcom)

id FAA18972; Wed, 14 Sep 1994 05:01:46 -0700

Received: from aluxs!alsun150.UUCP by ig1.att.att.com id AA00953; Wed, 14 Sep 94 08:01:12 EDT
 From: alsun150!jvm@aluxs.att.com (Jim Morgan)
 To: qrp-l@netcom.com
 Cc: alsun150!jvm
 Received: from alsun150 (alsun150.cnet.att.com) by aluxs (4.1/DCS-aluxs-M3.1) id AA00519; Wed, 14 Sep 94 08:02:02 EDT
 Received: by alsun150 (4.1/DCS-alcaus_client-S2.2) id AA19912; Wed, 14 Sep 94 08:01:54 EDT
 Date: Wed, 14 Sep 94 08:01:54 EDT
 Original-From: aluxs!alsun150!jvm (Jim Morgan)
 Message-Id: <9409141201.AA19912@alsun150>
 Original-To: netcom.com!qrp-l
 Subject: Re: Using a dipole as a vertical
 Original-Cc: alsun150!jvm
 Sender: owner-qrp-l@netcom.com
 Precedence: list
 Status: R0

----- Begin Included Message -----

Amazing how some discussions never die!

The return of the RFD!

```
>|- feedline --|----- 1/2 wavelength -----|
>
>          |----- 1/4 wavelength ----|
>
> +-----=====
><-----0
> +-----=====
>
>
> ^^^^^^^^^^^^^ ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
>coax with      braid folded back over the      coax center conductor only
>outer          section of coax that still
>insulation and has the outer insulation.
>connector on
>end

      ^^ stick an RF choke here:
          by winding the coax into a coil
      or by loading the coax with some ferrite beads
      or by winding the coax around a toroid core
```

This avoids the wasteful and tedious "pull the shield back" task and you

can use cheap wire for

^^ this half of the dipole

Kevin Purcell, N7WIM / G8UDP xenolith@halcyon.com 206/649-6489
Seattle dBug Mac Developers SIG organiser

----- End Included Message -----

Except that now you're end-feeding the dipole (Hi-Z), whereas the original description is center-fed (Lo-Z).

Or am I missing something ?

Jim Morgan WX4D/3 jvm@aluxpo.att.com

From owner-qrp-l@netcom.com Wed Sep 14 10:19:11 1994
Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.99] with SMTP

id AA100494 (for qrmodena, from owner-qrp-l@netcom.com/owner-qrp-l@netcom.com); Wed, 14 Sep 94 10:19:11 -0400

Received: by mail.netcom.com (8.6.9/Netcom)

id FAA13851; Wed, 14 Sep 1994 05:34:11 -0700

Received: from pjl53ig.i-p.attmail.com by mail.netcom.com (8.6.9/Netcom)

id FAA13830; Wed, 14 Sep 1994 05:34:03 -0700

Date: Wed, 14 Sep 1994 09:05:17 -0400

From: acpy01!vmdoug.utsd.att.com!os2user@acpy01.attmail.com
(os2user@vmdoug.utsd.att.com)

Received: from acpy01 by attmail; Wed Sep 14 12:32 GMT 1994

Received: by acpy01 (/...\ Smail3.1.14.4 #14.3)

id <m0qktEn-0000blC@acpy01>; Wed, 14 Sep 94 08:14 EDT

Received: by acpy01 (/...\ Smail3.1.14.4 #14.3)

id <m0qktEm-0000DxC@acpy01>; Wed, 14 Sep 94 08:14 EDT

Received: by vmdoug.utsd.att.com (IBM OS/2 SENDMAIL VERSION 1.3.2)/1.2)

id AA0251; Wed, 14 Sep 94 08:08:03 -0400

Subject: Re: R2/T2 order info ??

Reply-To: doug@acpy01.utsd.att.com

To: @netcom.com:qrp-l@acpy01.utsd.att.com

Message-Id: <9409141208.AA0251@vmdoug.utsd.att.com>

Content-Type: text

Sender: owner-qrp-l@netcom.com

Precedence: list

Status: R0

NK8Q/3 writes:

>I would be interested in what you come up with for the L0/VF0 that you are
>working on. Pass information on to me directly or through this list.

I would also be interested in hearing more details on the designs/problems/etc that people encounter for the L0/VF0. I'm working on the 2m VF0 myself. (Just got the crystal.) Anyone else? Comments?

Doug KA2UPW
doug@acpy01.utsd.att.com

From owner-qrp-l@netcom.com Wed Sep 14 12:49:06 1994
Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.127]
with SMTP
id AA100892 (for qrmodena, from owner-qrp-l@netcom.com/owner-qrp-l@netcom.com); Wed, 14 Sep 94 12:49:06 -0400
Received: by mail3.netcom.com (8.6.9/Netcom)
id HAA29715; Wed, 14 Sep 1994 07:06:04 -0700
Received: from sgi.sgi.com by mail3.netcom.com (8.6.9/Netcom)
id HAA29695; Wed, 14 Sep 1994 07:05:59 -0700
Received: from sgidal.dallas.sgi.com by sgi.sgi.com via SMTP
(940627.SGI.8.6.9/910110.SGI)
for <@sgi.sgi.com:qrp-l@netcom.com> id HAA12867; Wed, 14 Sep 1994 07:06:13
-0700
Received: from chuck.dallas.sgi.com by sgidal.dallas.sgi.com via SMTP (920330.SGI/
911001.SGI)
for @sgi.sgi.com:qrp-l@netcom.com id AA10206; Wed, 14 Sep 94 09:05:48 -0500
Received: by chuck.dallas.sgi.com (931110.SGI/930416.SGI)
for @sgidal.dallas.sgi.com:qrp-l@netcom.com id AA06806; Wed, 14 Sep 94
09:05:35 -0500
Date: Wed, 14 Sep 94 09:05:35 -0500
From: adams@chuck.dallas.sgi.com (chuck adams)
Message-Id: <9409141405.AA06806@chuck.dallas.sgi.com>
To: qrp-l@netcom.com
Subject: HW-7 Mods
Sender: owner-qrp-l@netcom.com
Precedence: list
Status: RO

For those of you with HW-7s, and you may already know about these articles, in the December 1973 issue of QST, page 23, is an article by Jerry Wine, KH6HKZ, on a new front end for the HW-7. In the January 1974 issue of QST is a set of mods by Doug De Maw, W1CER, that you may want to look at.

dit dit
Chuck Adams K5FO CP-60
adams@sgi.com

From owner-qrp-l@netcom.com Wed Sep 14 13:55:55 1994
Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.99] with SMTP

id AA100982 (for qrmodena, from owner-qrp-l@netcom.com/owner-qrp-l@netcom.com); Wed, 14 Sep 94 13:55:55 -0400

Received: by mail.netcom.com (8.6.9/Netcom)

id IAA11855; Wed, 14 Sep 1994 08:35:08 -0700

Received: from Vela.ACS.Oakland.Edu by mail.netcom.com (8.6.9/Netcom)

id IAA11728; Wed, 14 Sep 1994 08:34:33 -0700

Received: by Vela.ACS.Oakland.Edu id AA10867

(5.67a+/IDA-1.5); Wed, 14 Sep 1994 11:34:51 -0400

Date: Wed, 14 Sep 1994 11:34:49 -0400 (EDT)

From: prvalko <prvalko@vela.acs.oakland.edu>

Subject: Tri-Band HT for Sale - QRP :-)

To: qrp-l@netcom.com

Message-Id: <Pine.3.89.9409141142.B9298-01000000@vela.acs.oakland.edu>

Mime-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Sender: owner-qrp-l@netcom.com

Precedence: list

Status: R0

I'm posting for a very good (QRP) friend of mine. He has a brand new in the box ICOM Delta-1 tri-band handi-talkie for sale. It has been turned on twice. He want to sell it and use the money to buy a new ARG0.

He's asking \$700 shipped UPS. Write back if interested.

73 =paul= wb8zjl

From owner-qrp-l@netcom.com Wed Sep 14 14:40:14 1994
Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.127] with SMTP

id AA101044 (for qrmodena, from owner-qrp-l@netcom.com/owner-qrp-l@netcom.com); Wed, 14 Sep 94 14:40:14 -0400

Received: by mail3.netcom.com (8.6.9/Netcom)

id JAA17049; Wed, 14 Sep 1994 09:20:57 -0700

Received: from WordPerfect.com by mail3.netcom.com (8.6.9/Netcom)

id JAA16948; Wed, 14 Sep 1994 09:20:29 -0700

Received: from Gateways-Message_Server by WordPerfect.com

with Novell_GroupWise; Wed, 14 Sep 1994 09:56:40 -0600

Message-Id: <se76c8d8.007@WordPerfect.com>

X-Mailer: Novell GroupWise 4.1

Date: Wed, 14 Sep 1994 09:56:16 -0600

From: Michael Bendio <MB@WordPerfect.com>
To: qrp-1@netcom.com
Subject: re: R2/T2 VFO
Sender: owner-qrp-1@netcom.com
Precedence: list
Status: RO

Doug, KA2UPW writes:

>>I'm working on the 2m VFO myself. (Just got the crystal.) Anyone
>>else? Comments?

Yes, I'm interested in a 2m VFO for the R2 for use as a satellite receiver.

Michael, WT7J

From owner-qrp-1@netcom.com Wed Sep 14 16:00:05 1994
Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.122]
with SMTP
id AA101206 (for qrmodena, from owner-qrp-1@netcom.com/owner-qrp-
1@netcom.com); Wed, 14 Sep 94 16:00:05 -0400
Received: by mail2.netcom.com (8.6.9/Netcom)
id KAA22387; Wed, 14 Sep 1994 10:29:25 -0700
Received: from Kodak.COM by mail2.netcom.com (8.6.9/Netcom)
id KAA22299; Wed, 14 Sep 1994 10:29:04 -0700
Received: from hobby1-gw.cba.kodak.com by Kodak.COM (5.61+/2.1-Eastman Kodak)
id AA29816; Wed, 14 Sep 94 13:29:04 -0400
Reply-To: bmitchel@CBA.Kodak.COM
Received: from santa.CBATEST ([129.126.243.4]) by hobby1.cba.kodak.com with SMTP
id AA02925
(5.65c/IDA-1.4.4 for <qrp-1@netcom.com>); Wed, 14 Sep 1994 12:43:51 -0400
Date: Wed, 14 Sep 1994 12:43:51 -0400
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Message-Id: <199409141643.AA02925@hobby1.cba.kodak.com>
To: qrp-1@netcom.com
Subject: Balanced TX
Sender: owner-qrp-1@netcom.com
Precedence: list
Status: RO

Hi all, I was wondering for a long time what you guys might think of
this idea..

Design a transmitter so that instead of single ended, it was initially
a balanced output scheme. This could be generated by
signal inversion , rather than a balanced transformer
, and with this you could feed tv twin
lead direct, as opposed to having the loss of the balun. Then with 100mw

you could get a higher % of that to the antenna...

```
signal _-_-_-_- buffer -|>---[filter]----- Twin lead
      inv      -|>0--[filter]----- Twin lead
```

I know my drawing is crude, but if you take a single ended signal, invert it, and send the two out to the feed point, you are generating a balanced output without the loss of the balanced transformer.

I suppose that in days gone by they must have done very similar schemes for generating 600 ohm balanced outputs, and maybe this method is already being used for qrp but I haven't seen it, and will look in the old handbooks. It seems to me that if you want to try real small singals like 10mw or 100mw, then this eliminates the inefficiencies of the transformer, and gets more of the signal out to the more efficient balanced line.

Well? any ideas guys??

73 Brad WB8YGG

From owner-qrp-l@netcom.com Wed Sep 14 16:24:58 1994

Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.99] with SMTP

id AA101224 (for qrmodena, from owner-qrp-l@netcom.com/owner-qrp-l@netcom.com); Wed, 14 Sep 94 16:24:58 -0400

Received: by mail.netcom.com (8.6.9/Netcom)

id LAA25515; Wed, 14 Sep 1994 11:12:08 -0700

Received: from clark.dgim.doc.ca by mail.netcom.com (8.6.9/Netcom)

id LAA25487; Wed, 14 Sep 1994 11:11:58 -0700

Received: by clark.dgim.doc.ca (4.1/SMI-4.1.tee)

id AA18256; Wed, 14 Sep 94 14:12:26 EDT

From: jcumming@clark.dgim.doc.ca (Jim Cummings)

Message-Id: <9409141812.AA18256@clark.dgim.doc.ca>

Subject: K5FO Inventory (fwd)

To: qrp-l@netcom.com

Date: Wed, 14 Sep 1994 14:12:25 -0400 (EDT)

X-Mailer: ELM [version 2.4 PL23]

Mime-Version: 1.0

Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit

Content-Length: 2969

Sender: owner-qrp-l@netcom.com

Precedence: list

Status: RO

In a previous mailing, C. Adams wrote:

>

> I wanna add one more thing to my inventory. Oh please

> forgive me, one and all. I want to obtain a TNC or
> whatever to listen to packet/amtorg/crickets or whatever.
>
> I turned on the Argosy I last night and the night before
> and there is some strong critter sitting at 7.035MHz and
> I want to identify this sucker (or someone else can do
> it on the net). I think we outta publicly announce the
> call signs and duration of such transmissions, even if
> it is legal, it is a pain in the rear. Give an inch
> and they'll take a mile or KHz.
>
> Soap box off.
>
> dit dit
> Chuck Adams K5FO CP-60
> adams@sgi.com
>
>
>

For what reason would Adams wish to broadcast the name or call sign of the station? Since he admits that it's legal, what does he hope to accomplish? Quite frankly, a couple of good doses of castor oil would go a much longer way in relieving his painful gluteus maximus.

I also wish to draw to Adams attention to page 37-3, 1991 edition of the ARRL Handbook for Radio Amateurs. On this page is Table 2 entitled "Voluntary HF band Plans for Considerate US Operators" (please note the adjective "considerate"). In that table, one will notice that 7040 kHz is designated as the DX frequency for RTTY communications, in accordance with mutual agreements among amateurs. Therefore, digital operation on this frequency is not out of line of recognized practice. As a result, digital operation on 7035 is at most, a minor transgression.

I must caution all those who may not be aware, but the 40 metre allocation outside of ITU Region 2 is from 7000 kHz to 7100kHz. Under those circumstances, most digital operation is below 7050 kHz. Therefore, any attempts to move digital operations off those frequencies is likely to be held with contempt and will be politely, but disdainfully, ignored. If I may add a personal note, I have had a number of nice digital chats in that range of frequency and I have taken great delight when the CW operators try to kick us off... We just "cricket" away to our hearts content.

Finally, I would highly recommend that dyed-in-the-wool CW operators should not obtain the means to listen in or operate digital modes. I have come to this conclusion because after reading many of the messages in the newsgroups, most of the CW operators that campaign for the retention of CW testing, et al., could not physically or intellectually cope with inescapable

conclusion that CW communications in amateur radio is becoming a quaint anachronism. Such losses, either through early death or many years in therapy while isolated in a rubber room, would clearly be a loss to society because I am sure that they would have other talents to bring to the betterment of society and their fellow man.

73 and live better digitally

Jim Cummings, VE3XJ

** Don't get too excited, because remember, today **
** is the first day of the rest of your life! **

From owner-qrp-l@netcom.com Wed Sep 14 19:24:47 1994
Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.122]
with SMTP

id AA100535 (for qrmodena, from owner-qrp-l@netcom.com/owner-qrp-l@netcom.com); Wed, 14 Sep 94 19:24:47 -0400

Received: by mail2.netcom.com (8.6.9/Netcom)

id MAA02428; Wed, 14 Sep 1994 12:41:30 -0700

Received: from halcyon.com by mail2.netcom.com (8.6.9/Netcom)

id MAA02376; Wed, 14 Sep 1994 12:41:19 -0700

Received: from [149.82.22.63] by halcyon.com with SMTP id AA20266

(5.65c/IDA-1.4.4 for <qrp-l@netcom.com>); Wed, 14 Sep 1994 12:41:37 -0700

Message-Id: <199409141941.AA20266@halcyon.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Wed, 14 Sep 1994 12:42:20 -0700

To: alsun150!jvm@aluxs.att.com (Jim Morgan)

From: xenolith@halcyon.com (Kevin Purcell)

Subject: Re: Using a dipole as a vertical

Cc: qrp-l@netcom.com

Sender: owner-qrp-l@netcom.com

Precedence: list

Status: R0

>----- Begin Included Message -----

>

>

>Amazing how some discussions never die!

>

>The return of the RFD!

>

>>|- feedline --|----- 1/2 wavelength -----|

>>

>> |----- 1/4 wavelength ----|

Seattle dBug Mac Developers SIG organiser

From owner-qrp-l@netcom.com Wed Sep 14 23:00:59 1994
Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.122]
with SMTP
id AA101273 (for qrmodena, from owner-qrp-l@netcom.com/owner-qrp-l@netcom.com); Wed, 14 Sep 94 23:00:59 -0400
Received: by mail2.netcom.com (8.6.9/Netcom)
id SAA27787; Wed, 14 Sep 1994 18:15:11 -0700
Received: from mail02.prod.aol.net by mail2.netcom.com (8.6.9/Netcom)
id SAA27764; Wed, 14 Sep 1994 18:15:04 -0700
From: JimN0OCT@aol.com
Received: by mail02.prod.aol.net
(1.38.193.5/16.2) id AA10019; Wed, 14 Sep 1994 21:15:03 -0400
X-Mailer: America Online Mailer
Message-Id: <9409142115.tn987083@aol.com>
To: qrp-l@netcom.com
Date: Wed, 14 Sep 94 21:15:02 EDT
Subject: 2 meter vfo....
Sender: owner-qrp-l@netcom.com
Precedence: list
Status: RO

are you using a 2m crystal, or a lower freq rock and multiplying it?

72.5, jim n0oct

From owner-qrp-l@netcom.com Thu Sep 15 00:50:30 1994
Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.128]
with SMTP
id AA101576 (for qrmodena, from owner-qrp-l@netcom.com/owner-qrp-l@netcom.com); Thu, 15 Sep 94 00:50:30 -0400
Received: by netcom15.netcom.com (8.6.8.1/Netcom)
id RAA06055; Wed, 14 Sep 1994 17:34:03 -0700
Received: by netcom15.netcom.com (8.6.8.1/Netcom)
id RAA06027; Wed, 14 Sep 1994 17:33:56 -0700
Date: Wed, 14 Sep 1994 17:33:55 -0700 (PDT)
From: Alan Kaul <kaul@netcom.com>
Subject: JW/JF2NXS (QRP) QRV (fwd)
To: qrp-l@netcom.com
Message-Id: <Pine.3.89.9409141737.A4269-01000000@netcom15>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
Sender: owner-qrp-l@netcom.com
Precedence: list

Status: R0

Following item pick up off the DX-reflector.

[<Alan Kaul, W6RCL>] kaul@netcom.com

----- Forwarded message -----

To: dx@unbc.edu

Subject: JW/JF2NXS (QRP) QRV

JW QRV Information.

CALL JW/JF2NXS (ITARU)

FREQ 14MHZ ONLY

MODE CW [QRP!!]

DATE 10.SEP to 20.SEP

QSL Callbook address or via bureau.

May be his signal is weak because his output power is only 2 watts....

He will QRV on Scandinavian Activity Contest. Good contact. 73/88

DE JF2ONG/3

Hideki Hane (HIDE)

TSM66252@pcvan.or.jp

From owner-qrp-1@netcom.com Thu Sep 15 00:52:57 1994

Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.128]
with SMTP

id AA101583 (for qrmodena, from owner-qrp-1@netcom.com/owner-qrp-1@netcom.com); Thu, 15 Sep 94 00:52:57 -0400

Received: by netcom15.netcom.com (8.6.8.1/Netcom)

id MAA00514; Wed, 14 Sep 1994 12:24:54 -0700

Received: from bach.seattleu.edu by netcom15.netcom.com (8.6.8.1/Netcom)

id MAA00498; Wed, 14 Sep 1994 12:24:47 -0700

Received: by bach.seattleu.edu (4.1/SMI-4.1)

id AA17587; Wed, 14 Sep 94 12:20:15 PDT

Date: Wed, 14 Sep 1994 12:19:22 -0700 (PDT)

From: "H. Ward Silver" <hwardsil@seattleu.edu>

Subject: Re: Balanced TX

To: Brad Mitchell <bmitche1@CBA.Kodak.COM>

Cc: qrp-1@netcom.com
In-Reply-To: <199409141643.AA02925@hobby1.cba.kodak.com>
Message-Id: <Pine.3.07.9409141220.E14914-8100000@bach>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
Sender: owner-qrp-1@netcom.com
Precedence: list
Status: R0

A Class-B output stage is a natural for balanced output as it requires a transformer anyway...just don't ground one end of the secondary.
73, Ward N0AX

From owner-qrp-1@netcom.com Thu Sep 15 01:29:07 1994
Received: by csemail.cropsci.ncsu.edu (5.61-AIX-1.2/1.0) from [192.100.81.119]
with SMTP
id AA101689 (for qrmadena, from owner-qrp-1@netcom.com/owner-qrp-1@netcom.com); Thu, 15 Sep 94 01:29:07 -0400
Received: by netcom9.netcom.com (8.6.8.1/Netcom)
id KAA08236; Wed, 14 Sep 1994 10:21:13 -0700
Received: from Sun.COM by netcom9.netcom.com (8.6.8.1/Netcom)
id KAA08208; Wed, 14 Sep 1994 10:21:05 -0700
Received: from EBay.Sun.COM (female.EBay.Sun.COM) by Sun.COM (sun-barr.Sun.COM)
id AA25772; Wed, 14 Sep 94 10:15:16 PDT
Received: from uranium.EBay.Sun.COM by EBay.Sun.COM (5.0/SMI-5.3)
id AA20850; Wed, 14 Sep 1994 10:15:12 +0800
Received: by uranium.EBay.Sun.COM (5.0/SMI-SVR4)
id AA07786; Wed, 14 Sep 1994 10:11:08 +0800
Date: Wed, 14 Sep 1994 10:11:08 +0800
From: Raymond.Anderson@EBay.Sun.COM (Ray Anderson)
Message-Id: <9409141711.AA07786@uranium.EBay.Sun.COM>
To: schreine@pogo.den.mmc.com
Subject: Re: R2/T2 order info ??
Cc: qrp-1@netcom.com
X-Sun-Charset: US-ASCII
Content-Length: 1244
Sender: owner-qrp-1@netcom.com
Precedence: list
Status: R0

>

> Ray,

... paragraph deleted ...

> I would be interested in what you come up with for the L0/VFO that you are
> working on. Pass information on to me directly or through this list. I

> think about 50 or 60 people ordered the R2/T2 kits, so there would be
> sufficient interest.
>
> 73s de Mark, NK8Q/3
>

Since it seems that the greatest # of people are interested in a 40 meter version of the INET rig, I decided to start on a 40 meter circuit first, but to make the design easy to modify for other HF bands.

I have come up with a few preliminary designs based on a VFO running at 4 X the desired output freq. There will be a digital quadrature generation circuit comprised of a single dual D flip-flop that should function over most of the HF bands (I hope). I am initially going to try 74S and/or 74F series logic, but may need to go ECL stuff for the higher bands. I layed out a PCB pattern last nite for the TTL quadrature circuit.

Right now I am looking at a variant of a Vackar oscillator with varactor tuning. (I don't like mechanical tuning caps). We'll see how that turns out as far as stability and phase noise goes.

Anyway, I post updates as I make progress.

72's de Ray WB6TPU
raymonda@uranium.ebay.sun.com